

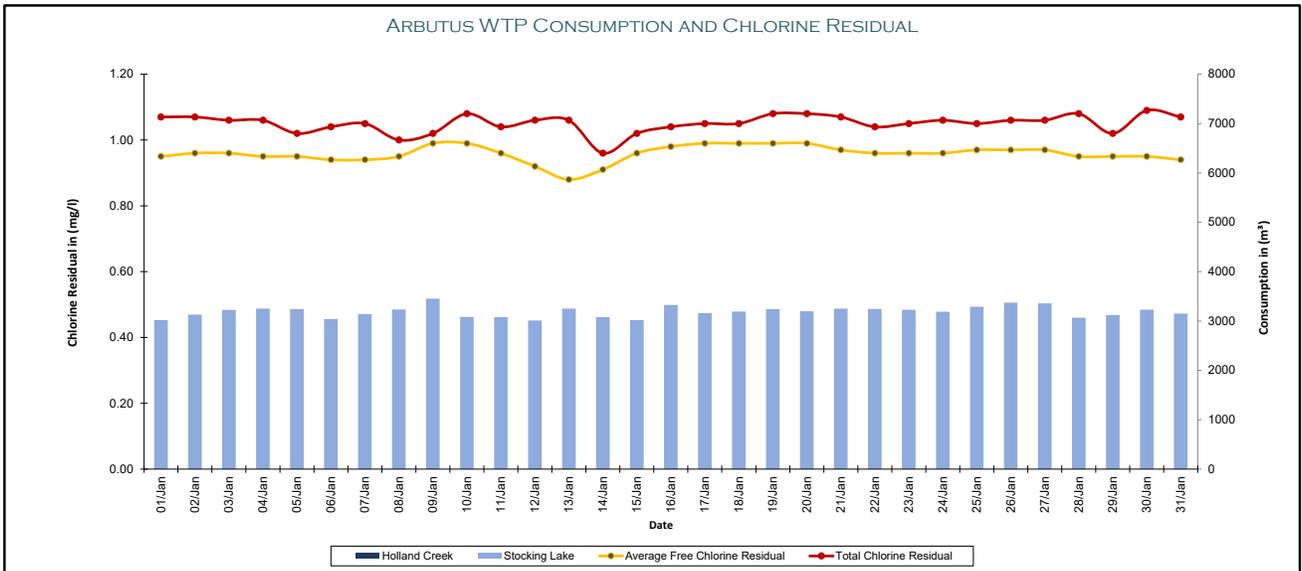
TOWN OF LADYSMITH - ARBUTUS WATER TREATMENT PLANT

JANUARY 2026 - MONTHLY REPORT

Date	Daily Flow			Chlorine Residual				CT*	External Lab Testing					
	Stocking Lake	Holland Creek	Combined Flow	Free Min	Free Max	Free Avg	Total		HPC	E.coli	Total Coliforms	Aluminum	THM	HAA
	m ³	m ³	m ³	mg/l	mg/l	mg/l	mg/l		CFU	MPN	MPN	mg/l	mg/l	mg/l
01-Jan	3021	0	3021	0.94	0.96	0.95	1.07	180						
02-Jan	3130	0	3130	0.94	0.97	0.96	1.07	162						
03-Jan	3225	0	3225	0.94	0.97	0.96	1.06	166						
04-Jan	3252	0	3252	0.94	0.94	0.95	1.06	177						
05-Jan	3241	0	3241	0.94	0.96	0.95	1.02	164						
06-Jan	3041	0	3041	0.93	0.95	0.94	1.04	131	< 1	< 1	< 1	0.0322	0.0196	0.0114
07-Jan	3142	0	3142	0.93	0.95	0.94	1.05	142						
08-Jan	3233	0	3233	0.90	0.95	0.95	1.00	160						
09-Jan	3452	0	3452	0.94	0.95	0.99	1.02	174						
10-Jan	3081	0	3081	0.97	0.98	0.99	1.08	125						
11-Jan	3079	0	3079	0.95	0.99	0.96	1.04	241						
12-Jan	3010	0	3010	0.92	0.99	0.92	1.06	237						
13-Jan	3252	0	3252	0.86	0.96	0.88	1.06	154	< 1	< 1	< 1			
14-Jan	3078	0	3078	0.87	0.93	0.91	0.96	159						
15-Jan	3020	0	3020	0.91	0.91	0.96	1.02	156						
16-Jan	3325	0	3325	0.95	0.96	0.98	1.04	152						
17-Jan	3160	0	3160	0.97	0.99	0.99	1.05	143						
18-Jan	3192	0	3192	0.98	0.99	0.99	1.05	153						
19-Jan	3241	0	3241	0.98	1.00	0.99	1.08	137						
20-Jan	3198	0	3198	0.97	1.00	0.99	1.08	138	< 1	< 1	< 1			
21-Jan	3252	0	3252	0.96	1.00	0.97	1.07	132						
22-Jan	3246	0	3246	0.95	1.00	0.96	1.04	115						
23-Jan	3226	0	3226	0.94	0.97	0.96	1.05	138						
24-Jan	3190	0	3190	0.94	0.96	0.96	1.06	144						
25-Jan	3290	0	3290	0.95	0.97	0.97	1.05	212						
26-Jan	3372	0	3372	0.95	0.97	0.97	1.06	140						
27-Jan	3359	0	3359	0.96	0.97	0.97	1.06	154	< 1	< 1	< 1			
28-Jan	3066	0	3066	0.95	0.98	0.95	1.08	130						
29-Jan	3122	0	3122	0.93	0.98	0.95	1.02	132						
30-Jan	3230	0	3230	0.94	0.96	0.95	1.09	184						
31-Jan	3149	0	3149	0.93	0.95	0.94	1.07	162						

*CT - Recorded as the minimum value at the highest daily flow ** Manual Residual were not taken

Total	98875	0	98875											
Average	3190	0	3190	3.94	0.97	0.96	1.05	158	< 1	< 1	< 1	0.0322	0.0196	0.01140



Town of Ladysmith Arbutus DWTP

Monthly LRV and Turbidity Report

01/01/2026 - 02/01/2026

LRV Monthly Average

Asset	Parameter	Health	Avg	Std. Dev	Points	LL	L	%In	% between L and LL	% < LL	Unit
UF 1	LRV	●	5.0	0.0	32	4.25	4.5	100 %	0 %	0 %	#
UF 2	LRV	●	5.0	0.0	33	4.25	4.5	100 %	0 %	0 %	#
UF 3	LRV	●	5.0	0.0	32	4.25	4.5	100 %	0 %	0 %	#

LRV Daily Values

Asset	Parameter	Jan 01	Jan 02	Jan 03	Jan 04	Jan 05	Jan 06	Jan 07	Jan 08	Jan 09	Jan 10	Jan 11	Jan 12
UF 1	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 2	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 3	LRV	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Asset	Jan 13	Jan 14	Jan 15	Jan 16	Jan 17	Jan 18	Jan 19	Jan 20	Jan 21	Jan 22	Jan 23	Jan 24	Jan 25	Jan 26	Jan 27	Jan 28
UF 1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
UF 3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Asset	Jan 29	Jan 30	Jan 31	Feb 01
UF 1	5.0	5.0	5.0	5.0
UF 2	5.0	5.0	5.0	5.0
UF 3	5.0	5.0	5.0	5.0

LRV Raw Data

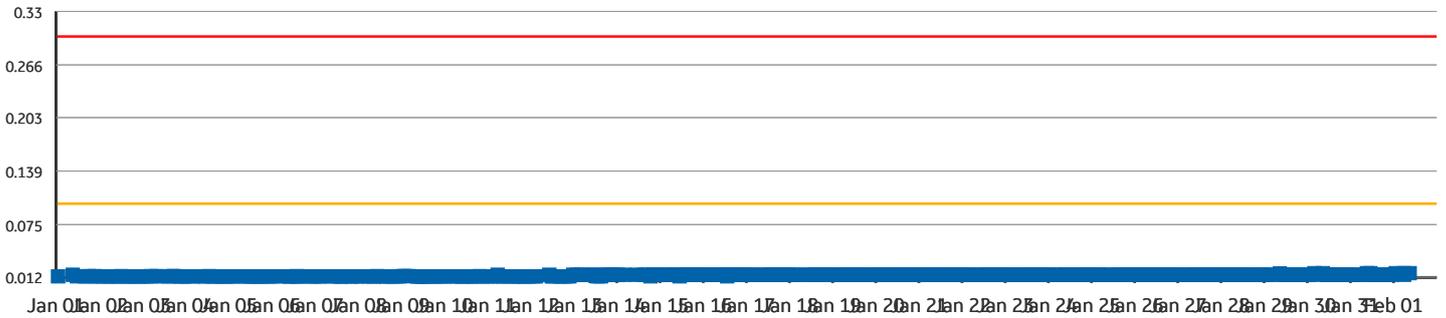
Asset	Parameter	Jan 01	Jan 02	Jan 03	Jan 04	Jan 05	Jan 06	Jan 07	Jan 08	Jan 09	Jan 10	Jan 11
UF 1	PermeateTurbidityAfterBP	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 2	PermeateTurbidityAfterBP	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
UF 3	PermeateTurbidityAfterBP	0.013	0.013	0.013	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015

Asset	Jan 12	Jan 13	Jan 14	Jan 15	Jan 16	Jan 17	Jan 18	Jan 19	Jan 20	Jan 21	Jan 22	Jan 23	Jan 24	Jan 25	Jan 26
UF 1	0.013	0.013	0.014	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
UF 2	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.013
UF 3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.017	0.017	0.017
UF 1	0.013	0.014	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
UF 2	0.013	0.013	0.014	0.013	0.014	0.013	0.013	0.014	0.013	0.014	0.013	0.013	0.013	0.013	0.013
UF 3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.016	0.017	0.017	0.017

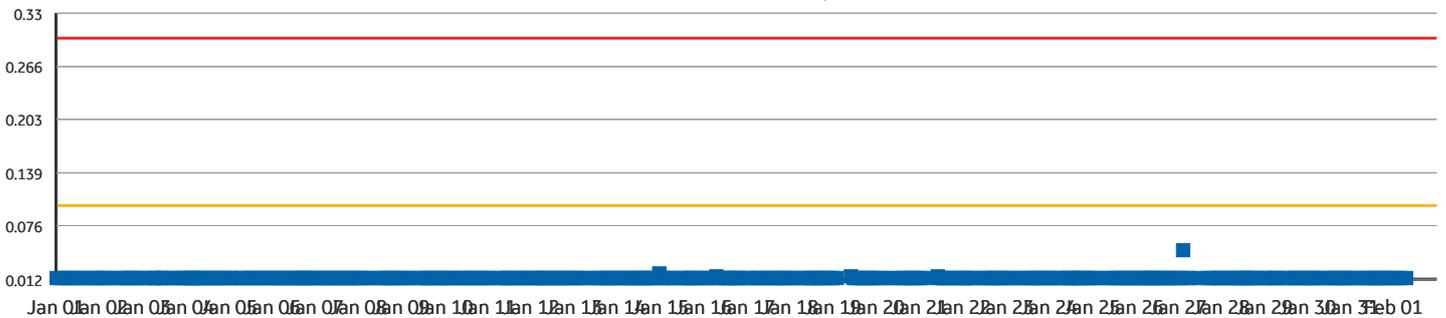
Asset	Jan 27	Jan 28	Jan 29	Jan 30	Jan 31	Feb 01
UF 1	0.015	0.015	0.015	0.015	0.015	0.016
UF 2	0.014	0.013	0.013	0.013	0.013	0.013
UF 3	0.017	0.017	0.017	0.017	0.017	0.017
UF 1	0.015	0.015	0.015	0.015	0.015	0.016
UF 2	0.017	0.013	0.013	0.013	0.013	0.013
UF 3	0.017	0.017	0.017	0.017	0.017	0.017

Turbidity Raw Data

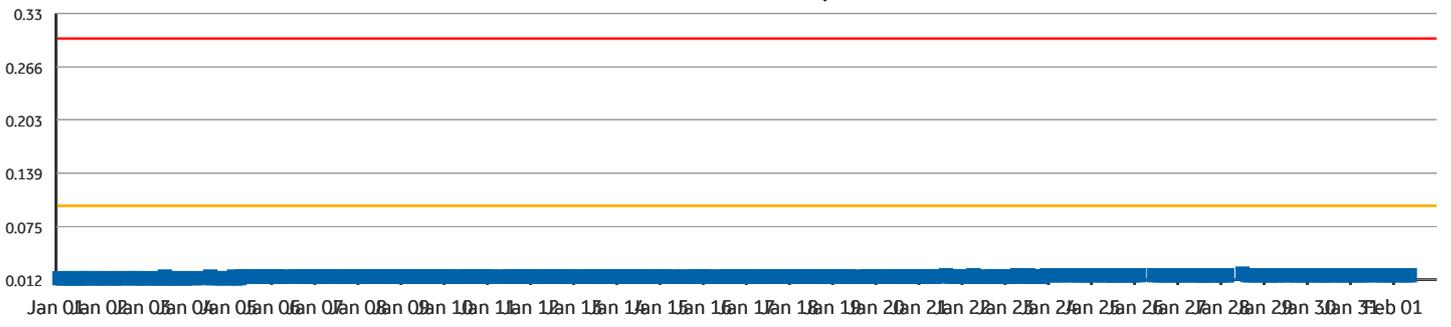
UF 1 - PermeateTurbidityAfterBP (NTU)



UF 2 - PermeateTurbidityAfterBP (NTU)



UF 3 - PermeateTurbidityAfterBP (NTU)





CERTIFICATE OF ANALYSIS

Work Order	: VA26A0255	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment - Monthly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 07-Jan-2026 10:35
C-O-C number	: ----	Date Analysis Commenced	: 09-Jan-2026
Sampler	: ----	Issue Date	: 20-Jan-2026 16:27
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
mg/L	milligrams per litre
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	Treated Water (post reservoir)	----	----	----	----
					Client sampling date / time	06-Jan-2026 10:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A0255-001	----	----	----	----	----
						Result	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0322	----	----	----	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611B/VA	1.0	µg/L	1.6	----	----	----	----	----
Bromoform	75-25-2	E611B/VA	1.0	µg/L	<1.0	----	----	----	----	----
Chloroform	67-66-3	E611B/VA	1.0	µg/L	18.0	----	----	----	----	----
Dibromochloromethane	124-48-1	E611B/VA	1.0	µg/L	<1.0	----	----	----	----	----
Trihalomethanes [THMs], total	----	E611B/VA	2.0	µg/L	19.6	----	----	----	----	----
Volatile Organic Compounds [THMs] Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611B/VA	1.0	%	96.2	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611B/VA	1.0	%	98.5	----	----	----	----	----
Haloacetic Acids										
Bromochloroacetic acid	5589-96-8	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Dibromoacetic acid	631-64-1	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Dichloroacetic acid	79-43-6	E750/WT	1.00	µg/L	5.14	----	----	----	----	----
Monobromoacetic acid	79-08-3	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Monochloroacetic acid	79-11-8	E750/WT	1.00	µg/L	<1.00	----	----	----	----	----
Trichloroacetic acid	76-03-9	E750/WT	1.00	µg/L	6.23	----	----	----	----	----
Haloacetic acids, total [HAA5]	n/a	E750/WT	5.00	µg/L	11.4	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA26A0255</p> <p>Client : Town of Ladysmith</p> <p>Contact : Shawn Baker</p> <p>Address : 410 Esplanade PO Box 220 Ladysmith BC Canada V9G 1A2</p> <p>Telephone : ----</p> <p>Project : Arbutus Water Treatment - Monthly Sampling</p> <p>PO : 10940</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Town of Ladysmith</p> <p>Quote number : Town of Ladysmith Standing Offer_V2</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 5</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 07-Jan-2026 10:35</p> <p>Issue Date : 20-Jan-2026 16:27</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A0250		
Client	: Town of Ladysmith	Laboratory	: ALS Environmental - Vancouver
Contact	: Shawn Baker	Account Manager	: Kevin Bhikadia
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment Plant - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 07-Jan-2026 10:35
C-O-C number	: ----	Date Analysis Commenced	: 07-Jan-2026
Sampler	: ----	Issue Date	: 12-Jan-2026 13:43
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Claire Yang	Lab Assistant	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Work Order : VA26A0250
Client : Town of Ladysmith
Project : Arbutus Water Treatment Plant - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A0250-001	VA26A0250-002	VA26A0250-003	VA26A0250-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	17.3	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	68.3	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.52	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	3.35	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.52	1.21	1.12	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.73	1.16	1.12	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA26A0250</p> <p>Client : Town of Ladysmith</p> <p>Contact : Shawn Baker</p> <p>Address : 410 Esplanade PO Box 220 Ladysmith BC Canada V9G 1A2</p> <p>Telephone : ----</p> <p>Project : Arbutus Water Treatment Plant - Weekly Sampling</p> <p>PO : 10940</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Town of Ladysmith</p> <p>Quote number : Town of Ladysmith Standing Offer_V2</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p>	<p>Page : 1 of 7</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 07-Jan-2026 10:35</p> <p>Issue Date : 12-Jan-2026 13:46</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

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 - RPD: Relative Percent Difference.
-

Workorder Comments

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- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A0755	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arubtus Water Treatment Plant - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 14-Jan-2026 11:55
C-O-C number	: ----	Date Analysis Commenced	: 14-Jan-2026
Sampler	: ----	Issue Date	: 21-Jan-2026 08:47
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Hdeep Kaur	Lab Assistant	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Work Order : VA26A0755
Client : Town of Ladysmith
Project : Arubtus Water Treatment Plant - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A0755-001	VA26A0755-002	VA26A0755-003	VA26A0755-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	19.2	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	74.7	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.48	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.02	1.01	1.00	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.46	1.04	1.10	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA26A0755</p> <p>Client : Town of Ladysmith</p> <p>Contact : Shawn Baker</p> <p>Address : 410 Esplanade PO Box 220 Ladysmith BC Canada V9G 1A2</p> <p>Telephone : ----</p> <p>Project : Arubtus Water Treatment Plant - Weekly Sampling</p> <p>PO : 10940</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Town of Ladysmith</p> <p>Quote number : Town of Ladysmith Standing Offer_V3</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p>	<p>Page : 1 of 7</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 14-Jan-2026 11:55</p> <p>Issue Date : 21-Jan-2026 08:47</p>
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Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A1351		
Client	: Town of Ladysmith	Laboratory	: ALS Environmental - Vancouver
Contact	: Shawn Baker	Account Manager	: Kevin Bhikadia
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment Plant - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 21-Jan-2026 11:55
C-O-C number	: ----	Date Analysis Commenced	: 21-Jan-2026
Sampler	: Logan	Issue Date	: 27-Jan-2026 09:57
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Anita Chuang	Lab Assistant	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
CFU/mL	colony forming units per millilitre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Work Order : VA26A1351
Client : Town of Ladysmith
Project : Arbutus Water Treatment Plant - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1351-001	VA26A1351-002	VA26A1351-003	VA26A1351-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	field	field	field	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	18.9	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	70.3	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.52	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	3.10	1.01	0.90	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.30	1.00	0.76	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA26A1351</p> <p>Client : Town of Ladysmith</p> <p>Contact : Shawn Baker</p> <p>Address : 410 Esplanade PO Box 220 Ladysmith BC Canada V9G 1A2</p> <p>Telephone : ----</p> <p>Project : Arbutus Water Treatment Plant - Weekly Sampling</p> <p>PO : 10940</p> <p>C-O-C number : ----</p> <p>Sampler : Logan</p> <p>Site : Town of Ladysmith</p> <p>Quote number : Town of Ladysmith Standing Offer_V3</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p>	<p>Page : 1 of 7</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 21-Jan-2026 11:55</p> <p>Issue Date : 27-Jan-2026 09:57</p>
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Key

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- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



CERTIFICATE OF ANALYSIS

Work Order	: VA26A2001	Laboratory	: ALS Environmental - Vancouver
Client	: Town of Ladysmith	Account Manager	: Kevin Bhikadia
Contact	: Shawn Baker	Address	: 8081 Lougheed Highway
Address	: 410 Esplanade PO Box 220 Ladysmith British Columbia Canada V9G 1A2		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Kevin.Bhikadia@alsglobal.com
Project	: Arbutus Water Treatment - Weekly Sampling	Telephone	: +1 604 253 4188
PO	: 10940	Date Samples Received	: 28-Jan-2026 15:30
C-O-C number	: ----	Date Analysis Commenced	: 28-Jan-2026
Sampler	: ----	Issue Date	: 04-Feb-2026 15:11
Site	: Town of Ladysmith		
Quote number	: Town of Ladysmith Standing Offer		
No. of samples received	: 4		
No. of samples analysed	: 4		

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<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Hdeep Kaur	Lab Assistant	Inorganics, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Lindsay Gung	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Rebecca Sit	Supervisor - Organics Extractions	Inorganics, Burnaby, British Columbia



General Comments

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Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
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<i>Unit</i>	<i>Description</i>
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mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
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<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Work Order : VA26A2001
Client : Town of Ladysmith
Project : Arbutus Water Treatment - Weekly Sampling





Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Raw Water ----	DAF Effluent ----	UF Effluent ----	Treated Water (post reservoir) ----	----
					Client sample ID				
					Client sampling date / time				
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A2001-001	VA26A2001-002	VA26A2001-003	VA26A2001-004	----
					Result	Result	Result	Result	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/VA	-	-	lab	lab	lab	----	----
Physical Tests									
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	----	----	----	18.4	----
Colour, true	----	E329/VA	5.0	CU	----	----	----	<5.0	----
Conductivity	----	E100/VA	2.0	µS/cm	----	----	----	68.2	----
pH	----	E108/VA	0.10	pH units	----	----	----	7.50	----
Turbidity	----	E121/VA	0.10	NTU	----	----	----	<0.10	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.86	1.20	1.09	----	----
Carbon, total organic [TOC]	----	E355-L/VA	0.50	mg/L	2.70	1.24	1.29	----	----
Microbiological Tests									
Heterotrophic plate count [HPC]	----	E020/VA	1	CFU/mL	----	----	----	<1	----
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----
Coliforms, total	----	E010/VA	1	MPN/100 mL	----	----	----	<1	----

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QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA26A2001</p> <p>Client : Town of Ladysmith</p> <p>Contact : Shawn Baker</p> <p>Address : 410 Esplanade PO Box 220 Ladysmith BC Canada V9G 1A2</p> <p>Telephone : ----</p> <p>Project : Arbutus Water Treatment - Weekly Sampling</p> <p>PO : 10940</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Town of Ladysmith</p> <p>Quote number : Town of Ladysmith Standing Offer_V3</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p>	<p>Page : 1 of 7</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 28-Jan-2026 15:30</p> <p>Issue Date : 04-Feb-2026 15:10</p>
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Summary of Outliers

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- No Duplicate outliers occur.
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- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.